# Keyboard and display system for operating several accessories in a motor vehicle.

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Requested

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Equivalents:

JP4238759

## **Abstract**

The present invention relates to an assignment of an indication of a display to the keys of a keyboard, in which, with a view to a standard operating philosophy for all vehicle components, an actuation of the keys

leads to different settings of these vehicle components in a motor vehicle.

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TITLE: Keyboard and display system for operating motor vehicle

components -

provides remote control with symbolic representation of key functions displayed

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PATENT-ASSIGNEE: MERCEDES-BENZ AG[DAIM]

PRIORITY-DATA: 1990DE-4010025 (March 29, 1990)

| PATENT-FAMILY:<br>PUB-NO            | PUB-DATE        | LANGUAGE | PAGES |
|-------------------------------------|-----------------|----------|-------|
| MAIN-IPC<br>DE 4010025 C            | June 6, 1991    | N/A      | 000   |
| N/A<br>EP 448984 A                  | October 2, 1991 | N/A      | 000   |
| N/A<br>EP 448984 A3                 | August 5, 1992  | N/A      | 000   |
| N/A<br>JP 04238759 A<br>B60R 016/02 | August 26, 1992 | N/A      | 005   |

DESIGNATED-STATES: ES FR GB IT NL SE

CITED-DOCUMENTS: DE 3346370; DE 3514438 ; DE 3628333 ; EP 279233 ; EP 3333330

; EP 57892 ; GB 2116800

| APPLICATION-DATA:<br>PUB-NO         | APPL-DESCRIPTOR | APPL-NO        |       |
|-------------------------------------|-----------------|----------------|-------|
| APPL-DATE<br>DE 4010025C            | N/A             | 1990DE-4010025 | March |
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INT-CL (IPC): B60R011/02; B60R016/02; G07C005/08; H01H009/18; H02B015/00; H04M001/02; H04M001/21; H04M001/27

ABSTRACTED-PUB-NO: DE 4010025C

BASIC-ABSTRACT: The keyboard and display system is used for servicing several

vehicle components in a vehicle. One of the vehicle components is

EP 366132B1 N/A 1989EP-0119881

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ES 2064418T3 Based on EP 366132 N/A US 5270689A N/A 1989US-0426186

October 25, 1989

INT-CL (IPC): B60K035/00; B60R016/02; G05G001/10; G09G003/02; H01H009/16; H01H025/06

ABSTRACTED-PUB-NO: EP 366132A

BASIC-ABSTRACT: The operating control uses rotary switches for selection of a

menu corresponding to a given function group and for selection of the individual function from this menu. The same bidirectional rotary switch is

used for menu selection and the individual function selection, with a series of

successive switch positions defining the different menus or functions,

enter function activated by axial movement of the rotary switch in the selected

switch position.

Pref. the selected menu and/or function is visually represented on a display screen, together with the corresponding switch position.

ADVANTAGE - Simplified selection of complex functions. @(8pp)

ABSTRACTED-PUB-NO: EP 366132B

EQUIVALENT-ABSTRACTS: A multi-function operating device for motor vehicles,

wherein groups of functions (menus) and individual functions are selectable by

means of rotary switches and an enter-function is triggerable, characterised in

that a single bidirectional rotary switch (1) is used for selection of menus

and selection of individual functions; that the rotary switch (1) has stop

positions, that the menus or individual functions are associated with stop

positions; and that the enter-function can be triggered by axial motion of the rotary switch (1).

## US 5270689A

The multi-function operator control includes a single bidirectional rotary

switch with stop positions and axial movability, used to designate function

groups and to select groups by an enter function arrangement and subsequently,

within the respective function group, select an individual function in

02/26/2003, EAST Version: 1.03.0002



# US005270689A

# United States Patent [19]

#### Hermann

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| [54]  | MULTI-FUNCTION OPERATING DEVICE   |   |                                      |  |
|---|---|---|--------------------------------------|--|
| [75]  | Inventor:   | Künzner Hermann, Munich<br>Rep. of Germany  | , Fed.                               |  |
| [73]  | Assignee:   | Baverische Motoren Werke<br>Rep. of Germany | AG, Fed.                             |  |
| [21]  | Appl. No.:  | 426,186                                     |                                      |  |
| [22]  | Filed:  | Oct. 25, 1989                               |                                      |  |
| [30]  | Foreig  | n Application Priority Data                 |                                      |  |
| Oct. 27, 1988 [DE] Fed. Rep. of Germany 3836555 |   |   |                                      |  |
| [51]<br>[52]<br>[58]                            | U.S. Cl<br>Field of Sea<br>340/602  |   | ; 343/137<br>711, 712,<br>3, 551.01, |  |
| [56]  |   | References Cited                            |                                      |  |
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5,270,689

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Assistant Examiner—Steve Saras
Attorney, Agent, or Firm—Evenson, McKeown,
Edwards & Lenahan

## 57] ABSTRACT

In the case of a multi-function operating device for motor vehicles, a single bidirectional rotary switch having stop positions and axial movability is used to designating function groups and to select them by means of an enter function arrangement and subsequently, within the respective function group, select the pertaining function in the same manner. The sole operating element in the form of the rotary switch can be operated without any problems and permits the desired selection or operating function at any time and without drawing attention away from the traffic situation.

8 Claims, 3 Drawing Sheets

